

ABSTRACT

5 A steam pressure reducing and conditioning valve for passing a
superheated steam S inflowing from a first port 1 through a pressure reducing
section 2, and, supplying subcooled water mist W and discharging
desuperheated and depressurized steam S2 from a second port 3, wherein a
first nozzle 4 for supplying mist W is provided in proximity to said pressure
reducing section 2. Said nozzle 4 injects subcooled water mist in a planar
pattern r perpendicular to the flow of depressurized steam S1. Said first
nozzle 4 is disposed such that there is a predetermined distance L between
10 the jet pattern r of moisture W injected from the nozzle and said pressure
reducing section 2.